CLIPPEDIMAGE= W0009524075A1

FUB-NO: WC009524075A1

HOGUMENT-IDENTIFIER: WO 9524075 A1

TITLE: SURFACE ACOUSTIC WAVE RESONATOR ELEMENT, SURFACE ACGUSTIC

WANE

RESONATOR, SURFACE-MOUNT SUPFACE ACCUSTIC WAVE RESONATOR, AND

METHOE OF

MANUFACTURE THEREOF

PUBN-DATE: September 8, 1995

INVENTOR-INFORMATION:

MAME CCUNTRY

CGISO, HIROYUKI JE
IGUCHI, SHUUICHI JE
KITAMUFA, FUMITAKA JE

ASSIGNEE-INFORMATION:

HAME COUNTRY

SEIKO EPSON CORP JE
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APPL-NO: JP09800311

APPL-DATE: February 28, 1995

PRIOFITY-DATA: JP03242794U (March 2, 1994)

INT-IL_(IPD): H03H003/08; H03H003/10; H03H009/25; H03H009/145 H03H-IL-EED: H03H003/08; H03H009/05, H03H009/10, H03H009/25

ABSTFACT:

A surface accustic wave resonator having an extremely stable resonance

frequency, a low equivalent series resistance and a high Q value can be

Accomplished by using a cantilevered resonator element that comprises an IDT

and a reflector arranged on a piezoelectric body. Further, the Q value can be

improved by enclosing this SAW resonator in a vacuum housing.

The electrodes constituting the IDT are anodized to form thick oxide, which

prevents them from short-directing due to foreign particles without deteriorating the

characteristics. Such a SAW device, attached to a lead frame,

may be molded with resin to provide a low-cost, surface-mount SAW device of high reliability and quality.

DERWENT-ACC-NO: 1995-320735

DERWENT-WEEK: 200007

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TITLE: Surface-mount surface accustic wave resonator and method

c: mir. - has

cantilevered element with anodized IDT electrodes and

lattice-type reflectors
or plezoelectric chip body

INVENTOR: IGUCHI, S; KITAMURA, F; CGISO, H

PATENT-ASSIGNEE: SEIKC EPSON CORP(SHIH)

PRIORITY-DATA: 1994UP-0032427 (March 2, 1994)

PATENT-FAMILY:

FUB-NO	PUB-DATE	LANGUAGE	
FAGES MAIN-IPC	N	N/A	014
JP 1188 882 A HOSH 003/10	November 30, 1999	II/A	OTA
WO 9524075 A1 HC3H 003./08	September 8, 1995	J	064
лови 003.00 JP 07522817 X нозн 003/08	June 25, 1996	N/A	000
US 5867074 A HARR 009/10	February 2, 1999	N/A	(101)

DESIGNATED-STATES: UP US

CITED-DOCUMENTS: EP 61648; JP 01106513; JP 01135212; JP

01213014 ; JP

02256297; JP 05028829; JP 05121990; JP 57052214; JP 57170599

; JP 88 41849

; JP 59054311 ; JP 59061211 ; JP 59152821 ; JP 61285815 ; JP

62035704 ; JP

87023093 ; JP 91011688 ; WO 8806818

APPLICATION-DATA:

PUE-NO	APPL-DESCRIPTOP	APPL-NO
APEL-DATE		
JP 11334832A	Div ex	1995JP-0522817
February 18, 1995		
JP 11330852A	N/A	1993JP-0099030
February 28, 1995		
WD 9524075A1	N/A	1995WO-JP00311
February 28, 1995		

1995JP-052281T JP (7522817X) :: A February 08, 1995 JP 17820817M 1995W0-JP00311 :: E February 28, 1995 JF 07522817X WO 9524075 Based on N A US 5867074A 1995WO-JP00311 N/A February 28, 1995 UP 5867074A 1996US-0537923 $\mathbb{N} \cdot \mathbb{A}$ January 18, 1996 WG 9524075 US 5867074A Based on 11 A INT-cL_(IPC): H03H003/08; H03H003/10; H03H009/10; H33H009/145; H PHC 19/25 ABSTRACTED-PUB-NO: US 5860004A BASIC-ABSTRACT: The SAW resonator comprises a cantilevered resonator element (1) which may be vacuum housed with in a metal case (21). The element donsists of an IDT (5) and lattice reflectors (6a,b) formed on a prezeelestric chip body (. The connecting land areas of the elements's IDT electrodes are connected to leads (25a,b) held in a hermetic terminal (21) having a glass core (23) within a metal cylinder (24). The devine may be moulded with resin, and the IDT electrodes are anodized to form a thick oxide. ADVANTAGE - Low cost and reliable SAW resonator having stable frequency, low equivalent series resistance, and high Q value. Short circuit of $\Gamma : \Gamma$ electrodes is prevented by anodisation. ABSTRACTED-PUB-NO: WO 9524075A EDTIVALENT-ABSTRACTS: The SAW resonator comprises a cantilevered resonator element (1) which may be vacuum housed with in a metal case (21). The element consists of an IDT [8] and lattice reflectors [6a,b) formed on a plezoelectric chip body (2). The connecting land areas of the elements's IDT electrodes are connected to leads (25a,b) held in a hermetic terminal (22)

having a glass core (23) within a metal cylinder 24.

The device may be moulded with resin, and the IDT electrodes are anodized to form a thick oxide.

AIVANTAGE - Low cost and reliable SAW resonator having stable frequency, low equivalent series resistance, and high Q value. Short circuit of IDT electrodes is prevented by anodisation.

CHOSEN-DRAWING: Dwg.5/29

TITLE-TERMS:

SURFACE MOUNT SURFACE ACOUSTIC WAVE RESONANCE METHOD MANUFACTURE CANTILEVER ELEMENT IDT ELECTRODE LATTICE TYPE REFLECT PIEZOELECTRIC CHIP BODY

DERWENT-CLASS: U14 V06

EPI-CODES: U14-G; V06-K02; V06-K03A; V06-K08;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1995-241254